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                 Web Page URLs for STN Seminar Schedule - N. America
                 "Ask CAS" for self-help around the clock
NEWS
NEWS
         SEP 09
                 CA/CAplus records now contain indexing from 1907 to the
                 present
NEWS 4
         DEC 08
                 INPADOC: Legal Status data reloaded
         SEP 29
NEWS 5
                 DISSABS now available on STN
         OCT 10
NEWS
                 PCTFULL: Two new display fields added
     6
         OCT 21
NEWS
     7
                 BIOSIS file reloaded and enhanced
         OCT 28
                 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS
     8
                 MSDS-CCOHS file reloaded
NEWS
     9
         NOV 24
         DEC 08
NEWS 10
                 CABA reloaded with left truncation
         DEC 08
NEWS 11
                 IMS file names changed
NEWS 12
         DEC 09
                 Experimental property data collected by CAS now available
                 in REGISTRY
NEWS 13
         DEC 09
                 STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14
         DEC 17
                 DGENE: Two new display fields added
        DEC 18
NEWS 15
                 BIOTECHNO no longer updated
        DEC 19
NEWS 16
                 CROPU no longer updated; subscriber discount no longer
                 available
         DEC 22
NEWS 17
                 Additional INPI reactions and pre-1907 documents added to CAS
                 databases
        DEC 22
NEWS 18
                 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19
        DEC 22
                 ABI-INFORM now available on STN
NEWS EXPRESS
             DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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              STN Operating Hours Plus Help Desk Availability
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              General Internet Information
NEWS LOGIN
              Welcome Banner and News Items
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              CAS World Wide Web Site (general information)
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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6 DICTIONARY FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> Uploading 087951.str

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR

N N NH G1

G1 C,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full FULL SEARCH INITIATED 18:58:24 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1979 TO ITERATE

100.0% PROCESSED 1979 ITERATIONS SEARCH TIME: 00.00.01

288 ANSWERS

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TOTAL

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FILE COVERS 1907 - 7 Jan 2004 VOL 140 ISS 2 FILE LAST UPDATED: 6 Jan 2004 (20040106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12 and stabilized

162 L2

140641 STABILIZED

2 STABILIZEDS

140643 STABILIZED

(STABILIZED OR STABILIZEDS)

L3 0 L2 AND STABILIZED

=> s 12 and stability

162 L2

566487 STABILITY 22108 STABILITIES

577284 STABILITY

(STABILITY OR STABILITIES)

L4 7 L2 AND STABILITY

=> d l4 1-7 ibib abs hitstr

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:892084 CAPLUS

DOCUMENT NUMBER:

139:381497

TITLE:

Preparation of stable hydralazine derivatives

INVENTOR(S):
Barbeau, Donald L.

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 26 pp., Cont.-in-part of U.S.

Ser. No. 87,951.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

m. 2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

US 2003212272 A1 20031113 US 2002-306196 20021127 US 2003199512 Α1 20031023 US 2002-87951 20020305 WO 2003075928 A2 20030918 WO 2003-US6521 20030304 WO 2003075928 A3 20031204 W: AU, BR, CA, IL, IN, JP, KR, MX, NO, NZ, PH, RU RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR PRIORITY APPLN. INFO.: US 2002-87951 A2 20020305 US 2002-306196 A 20021127 OTHER SOURCE(S): MARPAT 139:381497 GT

$$N = C = R^{1}$$

$$NHN = C = R^{2}$$

$$NHN = C = R^{3}$$

$$NHN = C = R^$$

Amethod of improving the **stability** of a hydralazine compn. during manufg. or storage comprises coupling an N-protecting group with hydralazine to produce title compds. [I-IV; R1, R2 = H, (substituted) alkyl, aryl, cycloalkyl, aralkyl, alkylcycloalkyl, alkenyl; R1R2 = atoms to form a (substituted) C4-7 cycloalkyl; R3 = alkyl, (substituted) aryl, aralkyl, cycloalkyl, aralkyl, alkylcycloalkyl, (CH2)nCOOH; n = 1-7], were prepd. (no data). Thus, 1-hydrazinophthalazine hydrochloride and .alpha.-ketoglutaric acid were stirred overnight in H2O to give 88% 1-hydrazinophthalazine .alpha.-ketoglutarate hydrazone.

IT 56173-18-3P 61641-43-8P 67173-21-1P 67536-13-4P 77874-88-5P 82928-49-2P 600707-30-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of stable hydralazine derivs.)

RN 56173-18-3 CAPLUS

CN 1(2H)-Phthalazinone, (1-methylethylidene)hydrazone (9CI) (CA INDEX NAME)

RN61641-43-8 CAPLUS

Benzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME) CN

RN

67173-21-1 CAPLUS 2-Butanone, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME) CN

RN67536-13-4 CAPLUS

Propanoic acid, 2-(1-phthalazinylhydrazono) - (9CI) (CA INDEX NAME) CN

77874-88-5 CAPLUS RN

Pentanedioic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME) CN

RN82928-49-2 CAPLUS

Acetaldehyde, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME) CN

RN600707-30-0 CAPLUS

1(2H)-Phthalazinone, methylenehydrazone (9CI) (CA INDEX NAME) CN

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2003:737585 CAPLUS

DOCUMENT NUMBER:

139:265755

TITLE:

Stable hydralazine derivative hydrazone pharmaceutical

compositions

INVENTOR (S):

Barbeau, Donald L.

PATENT ASSIGNEE(S):

USA

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND 1	DATE	APPLICATION NO	. DATE
WO 2003075		20030918	WO 2003-US6521	20030304
WO 2003075	928 A3 2	20031204		
W: AU	, BR, CA, IL,	IN, JP, KR,	MX, NO, NZ, PH,	RU
RW: AT	, BE, BG, CH,	CY, CZ, DE,	DK, EE, ES, FI,	FR, GB, GR, HU, IE,
IT	, LU, MC, NL,	PT, RO, SE,	SI, SK, TR	
US 2003199	512 A1 :	20031023	US 2002-87951	20020305
US 2003212:	272 A1 2	20031113	US 2002-306196	20021127
PRIORITY APPLN.	INFO.:	U	S 2002-87951	A 20020305
		υ	S 2002-306196	A 20021127

OTHER SOURCE(S):

MARPAT 139:265755

GΙ

AB Hydralazine deriv. hydrazones such as I were prepd. for stable pharmaceuticals. I and other derivs. were tested for antihypertensive activity and the **stability** of the derivs. detd. in solns.

IT 56173-18-3P 61641-43-8P 67173-21-1P 67536-13-4P 77874-88-5P 82928-49-2P 600707-30-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(stable hydralazine deriv. hydrazone pharmaceutical compns.)

RN 56173-18-3 CAPLUS

CN 1(2H)-Phthalazinone, (1-methylethylidene)hydrazone (9CI) (CA INDEX NAME)

RN 61641-43-8 CAPLUS

CN Benzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)

RN 67173-21-1 CAPLUS

CN 2-Butanone, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)

RN 67536-13-4 CAPLUS

CN Propanoic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)

RN 77874-88-5 CAPLUS

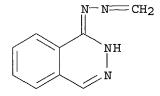
CN Pentanedioic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)

RN 82928-49-2 CAPLUS

CN Acetaldehyde, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)

RN 600707-30-0 CAPLUS

CN 1(2H)-Phthalazinone, methylenehydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:355491 CAPLUS

DOCUMENT NUMBER:

129:130899

TITLE:

Kinetic study of the reaction of pyridoxal 5'-phosphate with hydrazino compounds of

pharmacological activity

AUTHOR (S):

Echevarria-Gorostidi, Gerardo R.; Basagoitia, Andrea; Pizarro, Eliana; Goldsmid, Ruth; Santos Blanco, Jose

G.; Garcia Blanco, Francisco

CORPORATE SOURCE:

Department Physical Chemistry, University Alcala,

Alcala de Henares, E-28871, Spain

SOURCE:

Helvetica Chimica Acta (1998), 81(5), 837-844

CODEN: HCACAV; ISSN: 0018-019X Verlag Helvetica Chimica Acta AG

PUBLISHER:
DOCUMENT TYPE:

Journal

LANGUAGE:

English

The kinetics of the reaction between pyridoxal 5'-phosphate (PLP) with carbidopa, hydralazine, and isoniazid, in aq. soln. at variable pH and const. ionic strength of 0.1M was studied spectrophotometrically. The rate consts. of formation and hydrolysis of the resulting Schiff base, and its stability were detd. in a wide range of pH. A comparison is made of the formation rate consts. with those of PLP with hydrazine. The reactivity shows the sequence isoniazid > hydrazine > carbidopa > hydralazine in the whole range of pH studied. The Schiff bases studied are more stable than those formed by PLP and hexylamine and as stable as those described for the reactions of PLP with poly(L-lysine) or copolypeptides contg. L-lysine.

IT 13284-03-2

RL: BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)

(kinetics of the reaction of pyridoxal 5'-phasphate with hydrazino compds. of pharmacol. activity)

RN 13284-03-2 CAPLUS

CN 4-Pyridinecarboxaldehyde, 3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:491992 CAPLUS

DOCUMENT NUMBER:

121:91992

TITLE:

Spectrophotometric and chromatographic (HPLC) analysis

of hydralazine, dihydralazine and hydrazine after

derivatization with 2-nitrocinnamaldehyde

AUTHOR(S):

Di Pietra, Anna Maria; Roveri, Paola; Gotti, Roberto;

Cavrini, Vanni

CORPORATE SOURCE:

Dip. Sci. Farm., Univ. Bologna, Bologna, 40126, Italy

SOURCE:

Farmaco (1993), 48(11), 1555-67 CODEN: FRMCE8; ISSN: 0014-827X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB A simple spectrophotometric method, based on the reaction with 2-nitrocinnamaldehyde, was developed for the detn. of hydralazine (.lambda. = 390 nm) and dihydralazine (.lambda. = 395 nm) in their dosage forms. The method was **stability**-indicating and showed results comparable to those obtained by a ref. HPLC (cyano column) method. Prechromatog. derivatization with 2-nitrocinnamaldehyde, in combination with a preliminary solid-phase extn. (C18 sorbent), enabled sensitive and selective HPLC detns. of hydrazine in hydralazine to be accomplished.

IT 156568-79-5P

RL: PREP (Preparation)

(prepn. of, in drug detn. by spectrophotometry)

RN 156568-79-5 CAPLUS

CN 2-Propenal, 3-(2-nitrophenyl)-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:417044 CAPLUS

DOCUMENT NUMBER:

111:17044

TITLE:

Stability problems with hydralazine

p-anisaldehyde hydrazone

AUTHOR(S):

Semple, Hugh A.; Tam, Yun K.; Croteau, Stephen M.;

Coutts, Ronald T.

CORPORATE SOURCE:

Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB,

T6G 2N8, Can.

SOURCE:

Journal of Pharmaceutical Sciences (1989), 78(5),

432-4

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE:

LANGUAGE:

Journal English

Ι

GΙ

Hydralazine was detd. in blood by HPLC with UV detection based on derivatization with p-anisaldehyde and formation of I. However, I and its 4-methyl hydralazine analog, used as the internal std., were unstable in fresh canine blood contg. EDTA as an anticoagulant, human citrated blood, and fresh human blood contg. EDTA. The instability may lead to sample decompn. and hence variability and possible errors in detn. of hydralazine concn. p-Nitrobenzaldehyde produced a more stable deriv. with otherwise similar characteristics to I. Thus, p-nitrobenzaldehyde was recommended as a derivatizing agent in hydralazine HPLC detn. in blood.

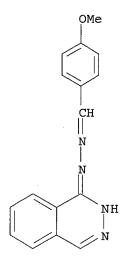
IT 61641-43-8, Hydralazine p-anisaldehyde hydrazone

RL: PRP (Properties)

(stability of, in blood of human and lab. animals, hydralazine HPLC detn. in relation to)

RN61641-43-8 CAPLUS

CNBenzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:485608 CAPLUS

DOCUMENT NUMBER:

109:85608

TITLE:

Assay for hydralazine as its stable

p-nitrobenzaldehyde hydrazone

AUTHOR (S):

Semple, Hugh A.; Tam, Yun K.; Tin, Sarah; Coutts,

Ronald T.

CORPORATE SOURCE:

Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB,

T6G 2N8, Can.

SOURCE:

Pharmaceutical Research (1988), 5(6), 383-6

CODEN: PHREEB; ISSN: 0724-8741

DOCUMENT TYPE:

Journal

LANGUAGE: English

A new method for the detn. of the antihypertensive drug, hydralazine, in human and dog blood is described that involves the addn. of p-nitrobenzaldehyde to blood samples contg. hydralazine, to form a stable Schiff's base, hydralazine p-nitrobenzaldehyde hydrazone. The deriv. is extd. from the blood into hexane and the samples are dried under a N stream. The exts. are then dissolved in mobile phase and analyzed by HPLC. The extd. samples can be stored for at least 7 days at room temp. or at -20.degree.. The sensitivity of the assay is better than 300 pg/mL using 3-mL blood samples, and the range can extend to 640 ng/mL. The stability of the extd. samples plus the sensitivity and simplicity of the assay are the main advantages of the method over other selective methods for hydralazine.

IT97142-39-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, in hydralazine detn. in blood of humans and lab. animals as, by HPLC)

RN97142-39-7 CAPLUS

Benzaldehyde, 4-nitro-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME) CN

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1981:52783 CAPLUS

DOCUMENT NUMBER:

94:52783

TITLE:

Stability of hydralazine pyruvate hydrazone

AUTHOR(S):

Timbrell, J. A.

CORPORATE SOURCE:

Dep. Clin. Pharmacol., R. Postgrad. Med. Sch., London,

W12 OHS, UK

SOURCE:

Journal of Chromatography (1980), 198(2), 150-2

CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE:

LANGUAGE:

Journal English

GΙ

Under acidic conditions in vitro, hydralazine pyruvate hydrazone (I) [67536-13-4] decarboxylated to methyltriazolophthalazine (II) [20062-41-3], but at physiol. pH little breakdown occurred. In vivo, I was metabolized to CO2, as shown by expts. with rats.

IT 67536-13-4

RL: RCT (Reactant); RACT (Reactant or reagent) (decarboxylation of, to methyltriazolophthalazine)

RN 67536-13-4 CAPLUS

CN Propanoic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)